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TITLE: Video image exposure appts. performing cyclic image shift - in horizontal direction by fraction of raster pattern step from one integration period to the next

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ABSTRACT:

The subject is imaged by a lens system (1) on to the photosensitive surface of a semiconductor image sensor (2) through an infrared filter (3) and colour filter wheel (4) providing red, green, and blue exposures in sequence. An analogue signal processor (5) is followed by a digitiser (6), multiplexer (7) and memory (8) all controlled from a clock generator (9). Advantageously, horizontal displacement in the path of the beam on to the imager (2) is obtd. from a tilted disc (3). ADVANTAGE - Resoln. enhancement with the semiconductor imager is achieved at min. technical cost without static image displacement due to drift.